

Title (en)
SURGICAL GRIPPING DEVICE

Title (de)
CHIRURGISCHE GREIFVORRICHTUNG

Title (fr)
DISPOSITIF CHIRURGICAL DE SAISIE

Publication
EP 2829245 A4 20151118 (EN)

Application
EP 13764334 A 20130318

Priority
• US 201261612632 P 20120319
• JP 2013057712 W 20130318

Abstract (en)
[origin: US2014135762A1] A grasping treatment device includes a probe including a first electrode portion in its distal portion, and a jaw configured to open or close relative to the first electrode portion and including a second electrode portion. The grasping treatment device includes a grasping force converting unit converting a grasping force so that a second grasping force between the distal portion of the probe and the jaw in a second treatment mode in which high-frequency current alone is transmitted to the first electrode portion and the second electrode portion is greater than a first grasping force between the distal portion of the probe and the jaw in a first treatment mode in which at least an ultrasonic vibration is transmitted to the distal portion of the probe.

IPC 8 full level
A61B 17/32 (2006.01); **A61B 18/00** (2006.01); **A61B 18/12** (2006.01)

CPC (source: EP US)
A61B 18/1445 (2013.01 - EP US); **A61B 2017/00367** (2013.01 - EP US); **A61B 2017/2825** (2013.01 - EP US); **A61B 2017/2929** (2013.01 - EP US); **A61B 2017/2946** (2013.01 - EP US); **A61B 2017/320093** (2017.07 - EP US); **A61B 2017/320095** (2017.07 - EP US); **A61B 2018/00589** (2013.01 - EP US); **A61B 2018/00994** (2013.01 - EP US)

Citation (search report)
• [XDA] US 2009270853 A1 20091029 - YACHI CHIE [JP], et al
• [XA] US 2011004127 A1 20110106 - OKADA MITSUMASA [JP], et al
• [A] EP 2263586 A2 20101222 - COVIDIEN AG [CH]
• [A] US 2007043352 A1 20070222 - GARRISON DAVID M [US], et al
• [A] US 6569178 B1 20030527 - MIYAWAKI MAKOTO [JP], et al
• See references of WO 2013141217A1

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EP3513755A3; US11564733B2; US11589889B2; US11446079B2; US11478267B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2014135762 A1 20140515; US 9232972 B2 20160112; CN 104010584 A 20140827; CN 104010584 B 20170301; EP 2829245 A1 20150128; EP 2829245 A4 20151118; JP 5519874 B2 20140611; JP WO2013141217 A1 20150803; WO 2013141217 A1 20130926

DOCDB simple family (application)
US 201314071059 A 20131104; CN 201380004280 A 20130318; EP 13764334 A 20130318; JP 2013057712 W 20130318; JP 2013544051 A 20130318